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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/552,487	05/18/2006	Junichiro Yamakawa	2005_1569A	7247
513 WENDEROTH	7590 09/10/2007 DEROTH, LIND & PONACK, L.L.P.		EXAMINER .	
2033 K STREE	-	•	NGUYEN, PATRICIA T	
SUITE.800 WASHINGTO	N, DC 20006-1021		ART UNIT	PAPER NUMBER
×			2817	
		•	MAIL DATE	DELIVERY MODE
			09/10/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)			
	10/552,487	YAMAKAWA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Patricia T. Nguyen	2817			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on					
	action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) ☐ Claim(s) 1-11 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-11 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine	er.				
0)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	· · · · · · · · · · · · · · · · · · ·				
Priority under 35 U.S.C. § 119					
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicat brity documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summan Paper No(s)/Mail D 5) Notice of Informal	Pate			
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>11/3/05, 2/22/07</u> .	6) Other:	αιστι Αργικατισί			

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3, 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Wright, U.S. Patent # 6,405,057 B1.

Fig. 3 discloses a circuit comprising: an amplifying unit (310) that amplifies the signal; temperature detecting means (370) that detects temperature; and amplifying-unit-self-heating-facilitation control means (330, 350, 360) that performs control for facilitating self-heating by the amplifying unit when temperature detected by the temperature detecting means is lower than a predetermined threshold value or equal to or lower than the predetermined threshold value.

Regarding claim 3, see spec. col. 4, line 35-col. 5, line 3.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Art Unit: 2817

Claims 4, 5, and 7-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wright, U.S. Patent # 6,405,057 B1 in view of Dolman et al., 2002/0109550 A1.

Regarding claim 4, although Wright does not mention that the amplifying unit is constituted by using plural amplifying elements, Dolman et al. teaches the use of plural amplifying elements in his circuit. Thus, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to have the amplifying unit constituted by using plural amplifying elements in order to have more gain for the circuit to meet system requirements.

Regarding claim 5, although Wright does not mention about amplifying-unit-self-heating-control-time- signal attenuating means, Dolman et al. teaches the use of attenuation means in his circuit. Thus, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to use the teaching of Dolman et al. of having the attenuating means in order to change the amplitude of the signal to have an optimum working condition for the circuit.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. Patents # 5,331,291, # 4,345,218, # 4,122,400, and # 3,755,751 contain some limitations of the claimed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patricia T. Nguyen whose telephone number is (571) 272-1768. The examiner can normally be reached on 6:30 AM - 5:00 PM.

Application/Control Number: 10/552,487 Page 4

Art Unit: 2817

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on 571-272-1769. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Patricia Nguym

September 3, 2007

Primary Examiner AU 2817